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**Epithilone derivs. obtd. by cultivating sorangium cellulosum -  
are fungicides and fungistatic(s) for plant protection and pharmaceuticals  
with cyto-toxic and immunosuppressive activity**

Patent Assignee: CIBA GEIGY AG (CIBA ); GBF GES BIOTECH FORSCHUNG GMBH (GBFB )

Inventor: BEDORF N; GERTH K; HOFLE G; REICHENBACH H; HOEFLE G

Number of Countries: 023 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4138042	A1	19930527	DE 4138042	A	19911119	199322 B
WO 9310121	A1	19930527	WO 92EP2656	A	19921119	199322
AU 9229437	A	19930615	AU 9229437	A	19921119	199340
DE 4138042	C2	19931014	DE 4138042	A	19911119	199341

Priority Applications (No Type Date): DE 4138042 A 19911119

Cited Patents: 1.Jnl.Ref; JP 54038113

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 4138042	A1	10		C07D-493/04	
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WO 9310121	A1 G	23		C07D-493/04	
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AU 9229437 A C07D-493/04 Based on patent WO 9310121

DE 4138042 C2 10 C07D-493/04

Abstract (Basic): DE 4138042 A

Epithilone derivs. of formula (I) are new. In (I) R1 = H, 1-4C alkyl, 1-4C acyl, Li+, K+, Na+, 1/2Mg2+, or 1/2Ca2+; R2 = H or Me.

(I) can be prepd. by (a) cultivating sorangium cellulosum strain So ce 90 in a medium contg. C and N source and mineral salts; (b) adding an adsorber resin either during or after cultivation; (c) sepg. the fermenter broth; (d) eluting the (I) from the adsorber resin; and (e) removing solvent(s) from the eluate immediately or after further purificn. steps; and opt. (f) purifying and separating the various cpds. (I) by high pressure/low pressure chromatography and/or recrystallisation.

USE/ADVANTAGE - (I) can be used as plant protecting agents in agriculture, forestry and/or horticulture, esp. as fungicides or fungistatics. (I) can also be used as therapeutic agents which esp. have cytotoxic activity and/or immunosuppressive activity. No further details of the activity given.

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Abstract (Equivalent): DE 4138042 C

Epithilone cpds. of formula (I) are new. R1 is H, 1-4C alkyl, 1-4C acyl, Li, K, Na, 1/2 Mg or 1/2 Ca; and R2 is H or CH3. Two epithilones, with specified NMR spectra (1H and 13C), IR spectrum etc.; and empirical formulae C26H39NO6S (493) and C27H41NO6S (507) are specifically claimed.

(I) are prepd. by culturing strain So ce 90 in a medium contg. a source of C and N, and minerals; adding adsorbent resin; removing the ferment broght, eluting (I) from the resin removing solvent; etc.; and purifying and separating the (I) by HP/LP chromatography and/or recrystallisation.

USE/ADVANTAGE - (I) are plant-protective agents and therapeutics with cytotoxic and immunosuppressive properties (claimed).

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Derwent Class: B02; C02; D16

International Patent Class (Main): C07D-493/04

International Patent Class (Additional): A01N-043/90; A01N-063/02; A61K-031/425; C07G-011/00; C12P-017/18; C07D-303-00; C07D-313-00; C07D-493/04; C12R-001-00